

METHODS, TRANSMITTERS, AND COMPUTER PROGRAM PRODUCTS FOR
TRANSMITTING A SIGNAL BY ADJUSTING A DELAY BETWEEN AN
AMPLITUDE COMPONENT OF THE SIGNAL AND A PHASE COMPONENT OF
THE SIGNAL BASED ON THE TRANSMISSION POWER

ABSTRACT OF THE DISCLOSURE

Embodiments of methods, transmitters, and computer program products are provided for transmitting a signal by adjusting a delay between an amplitude component of the signal and a phase component of the signal based on the transmission power. Error vector magnitude and adjacent channel power ratio are two
5 common criteria used in evaluating transmitter performance. By adjusting the delay between the amplitude component of the transmitted signal and the phase component of the transmitted signal, the error vector magnitude and/or the adjacent channel power ratio may be reduced. The particular delay value that provides the best error vector magnitude performance and/or adjacent channel power ratio performance may
10 differ based on the transmission power level. Therefore, the delay value is adjusted based on the transmission power.